





# McMASTER-CARR®

## Packing List

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada  
Attention: Chantal

Purchase Order  
**PO30670**

Order Placed By  
**Chantal Lavoie**

McMaster-Carr Number  
**4200256-01**

Page 1 of 1

12/04/2015

Line	Product	Ordered	Shipped
1	<b>3543T25</b> High-Strength 301 Stainless Steel Sheet, with Certificate, 1/4 Hard, 0.048" Thick, 12" X 12"	1 Each	1

8015-12-08

Shipped separately from our Cleveland warehouse on 12/04

2	<b>59915K274</b> PTFE-Lined Stainless Steel Ball Joint Rod End, 3/8"-24 Right-Hand Male Shank, 3/8" Ball ID, 1-1/4" L Thread	25 Each	25
3	<b>92311A564</b> 18-8 Stainless Steel Cup Point Set Screw, 1/4"-28 Thread, 1" Long	1 Pack	1
4	<b>92356A662</b> Type 18-8 Stainless Steel Square Neck Carriage Bolt, 3/8"-16 Thread, 10" Long	4 Packs	4
5	<b>91853A031</b> Slotted Locknut for Use with Cotter Pins, 18-8 Stainless Steel, 3/8"-16 Thread Size, 9/16" WD	4 Packs	4
6	<b>5862K14</b> Neodymium Disc Magnet, 1/2" Diameter, with Countersunk Hole for No. 4 Screw Size	1 Each	1

PENN STAINLESS PRODUCTS, INC.

Certificate of Mill Test Results

190 Kelly Road, Quakertown, PA 18951  
MCMaster CARR SUPPLY COMPANY PO/Rel: EJ-35067170  
STNLS SHEET SSH 301 1/4 HARD 18ga x 12" x 12"

Contact: FAX

Inv: 1097889 Date: 03/11/2014


Heat: 7520482

2018

AK Steel

7520482

12873316

		<b>AK Steel Corporation</b> Metallurgical Test Report Coshocton Works 17400 State Route 16 Coshocton, OH 43812 U.S.A.		Page 1								
CUSTOMER		MILL ORDER NO. 271940-1991 PROCESSOR ORDER NO. 01020377 PART NO. 11458 ENGLISH UNITS --PRODUCT-- METRIC UNITS 36.0000 X COIL		BUYERS ORDER NO. 01020377								
SKID ID	PIECE	HEAT	PARENT LIFT ID	NET WEIGHT								
SK1997179	1	7520482	725012-02	28,115 LBS. 12,753 KG.								
TOTAL SKIDS	TOTAL PIECES			TOTAL NET WEIGHT								
1	1			28,115 LBS. 12,753 KG.								
Ladle Analysis of Heat P-Product Analysis of Parent Coil												
ID	C	MIN	P	S	SI	CR	NI	MO	N	CU		
L 7520482	10	1.13	0.27	0.02	46	17.42	7.08	15	03	22		
REMARKS												
THIS MATERIAL WAS MELTED AND MANUFACTURED IN THE U.S.A. (DFAAS COMPLIANT). NO INTENTIONAL ADDITIONS OF MERCURY OR MERCURY COMPOUNDS, RADIUM, ALPHA SOURCE, AND LOW MELTING ALLOYS OR ELEMENTS CAPABLE OF FORMING LOW MELTING ALLOYS WERE MADE THROUGHOUT THE PROCESSING OF THIS MATERIAL. COILED PRODUCTS CONTAIN NO WELDS. STEELMAKING PROCESS - EAF MELTED, AOD REFINED, CONTINUOUS CAST SLABS.												
SHIPPING DATE: 04/11/2012												
PRODUCT DESCRIPTION												
CR SHT TYPE 301 STAINLESS NI 7.0A MIN TR FINISH 1/4 HARD SLIT EDGE AMS 5517L * ASTM A 666-10 * MILS-5059 D-AMEND-3 CANCELED * QQ-S-766-D (CANCELED) * UNS-S30100 11TH EDITION * UFM-301-1/4HD D6-04-08												
PARENT LIFT ID	POS	DIR (L, T, D)	COND	% ELONG	ELONG METHOD	ELONG GAUGE LENGTH	TENSILE STRENGTH (KSI)	Y.S. 2% OFFSET (KSI)	ROCKWELL HARDNESS Tail	ROCKWELL HARDNESS Front		
725012-02	T	T	AST-M COND	43.9	MEASURED	2 inch	141.4	83.9	C 25	C 25		
PARENT LIFT ID	POS	DIR (L, T, D)	COND	BEND IT LONG	BEND IT							
725012-02	T	T	AST-M PASS		PASS							

FORWARDED BY Q.C.  
Date 4/12/2014

\*\*\* CONTINUED ON NEXT PAGE \*\*\*

Size: 36 X 120  
P.O.: P00116  
Customer: PENN STAINLESS  
Shipped: 08/29/2012  
Heat: 7520482

# PENN STAINLESS PRODUCTS, INC.

190 Kelly Road, Quakertown, PA 18951

MCMaster CARR SUPPLY COMPANY PO/Rel: EJ-35067170

STNLS SHEET SSH 301 1/4 HARD 18ga x 12" x 12"


# Certificate of Mill Test Results

Contact: FAX

Inv: I097889

Date: 03/11/2014

Heat: 7520482

		<b>AK Steel Corporation</b> <b>Metallurgical Test Report</b> <b>Coshocton Works</b> <b>17400 State Route 16</b> <b>Coshocton, OH 43812 U.S.A.</b>		Page 2						
Load No. 7537972 Srm No. 7537972		MILL ORDER NO. 271940-1991 PROCESSOR ORDER NO. 01020377 BUYERS ORDER NO. 01020377								
PART NO. 11458		ENGLISH UNITS --PRODUCT-- METRIC UNITS .0500 NOM 36.0000 X COIL								
PARENT LIFT	POS	DIR	COND	% ELONG	ELONG METHOD	ELONG GAUGE LENGTH	TENSILE STRENGTH (KSI)	Y.S. 2% OFFSET (KSI)	ROCKWELL HARDNESS Tail	ROCKWELL HARDNESS Front
725012-02	F	T	A.S.T.M	47.0	MEASURED	2 inch	140.9	79.0	C 25	C 25
PARENT LIFT	POS	DIR	COND	BEND 180 IT LONG	BEND 180 IT					
725012-02	F	(L, T, D)	A.S.T.M	PASS	PASS					

THE CHEMICAL ANALYSIS AND PHYSICAL OR MECHANICAL TESTS REPORTED ABOVE ARE CORRECT AS COMPARED IN THE RECORDS OF THE CORPORATION.

ALL TESTING IS DONE IN ACCORDANCE WITH A.S.T.M. STANDARDS UNLESS OTHERWISE NOTED

AK Steel Corporation

THE CERTIFIED TEST REPORT HAS BEEN DELIVERED TO A CONSIGNEE OF MATERIAL PURCHASED FROM AK STEEL CORPORATION. TO AVOID THE POSSIBILITY OF ITS MISUSE ON DELIVERY OF THE REPORT TO A THIRD PARTY IT MUST BE RECERTIFIED BY AND UNDER THE NAME OF SUCH CONSIGNEE.

SIGNED: *Steve Korman* DATE: 04/11/2012 TIME: 09:37 PM  
 APPLICATION ENGINEER

Description: 301 1/4 HD .048-.052  
 Customer: PENN STAINLESS  
 Shipped: 08/28/2012  
 Heat: 7520482  
 Size: 36 X 120  
 P.O.: P001164  
 Part#: 7520482  
 Sales #: 01194675  
 Quantity: 20

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M30150.050  
 DATE: 13-12-21

PO / BATCH NO.: P030620/M133787

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 1  
 QUANTITY INSPECTED: 1  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .050  
 THICKNESS RECEIVED: .048  
 SHEET SIZE ORDERED: 12"x12"  
 SHEET SIZE RECEIVED: 12"x12"

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HT* 7520482
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	M133787
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>PD</u> DATE: <u>13.12.21</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO30670**

Purchase Order Date 12/4/2015

PO Print Date 12/4/2015

Page Number 1 of 3

**Order From :**

VU-MCM001

MCMaster-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**

**Contact Name**

**Vendor Phone** 330 995 5500

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Purolator ground ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 10

**Currency**

USD

**FOB**

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M301S0.050	301 SS sheet .050 - 1/4 hard	12/8/2015 Yes 12/8/2015		1.00 ✓ sf	\$53.61	\$53.61
MCMaster P/N: 3543T25 MATERIAL: AISI 301 SS SHEET MINIMUM 1/4 HARDNESS (NOT ANNEALED) 2B FINNISH AS PER AMS 5517/AMS 5518/AMS 5902/ AMS 5519 OR ASTM A666 WHIT MIN. FTU = 125 KSI & MIN FTY = 75 KSI							
Line Total:							\$53.61
2	59915K274	Rod End Bearing	12/8/2015 Yes 12/8/2015		25.00 ✓ Each	\$17.14	\$428.50
AS PER BGW D4777 REV. A B139701							
SOF-12-08 Line Total:							\$428.50

Note:

12/4/2015



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
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Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO30670**

Purchase Order Date 12/4/2015

PO Print Date 12/4/2015

Page Number 2 of 3

**Order From :**

MCMaster-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

VU-MCM001

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 330 995 5500

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Purolator ground ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms** Net 10

**Currency** USD

**FOB** FCA - (Free Carrier)

3	92311A564	Set Screw	12/8/2015	50.00	✓	\$0.23	\$11.65
			Yes	Each			
			12/8/2015				

AS PER DWG D3533 REV. B  
B139702

**Line Total:** \$11.65

4	92356A662	Bolt	12/8/2015	4.00	✓	\$6.23	\$24.92
			Yes	Each			
			12/8/2015				

AS PER DWG D3977 REV. A  
B139539

**Line Total:** \$24.92

5	91853A031	Nut	12/8/2015	4.00	✓	\$3.40	\$13.60
			Yes	Each			
			12/8/2015				

AS PER DWG D3978 REV. A  
B139521

15/12/18  
SP15-12-08

**Line Total:** \$13.60

**Note:**

12/4/2015



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Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
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## PURCHASE ORDER

Purchase Order ID **PO30670**

Purchase Order Date 12/4/2015

PO Print Date 12/4/2015

Page Number 3 of 3

**Order From :**

VU-MCM001

MCMaster-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone**

330 995 5500

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

Purolator ground ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 10

**Currency**

USD

**FOB**

FCA - (Free Carrier)

6	72000-45	5862K14 MAGNET	12/8/2015	1.00	/	\$3.31	\$3.31
			Yes	Each			
			12/8/2015				

**Deliver To:** CHANTAL

**Line Total:** \$3.31

**PO Total:** \$535.59

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr: 1

Change Date: 12/4/2015